

## ABSTRACT OF THE DISCLOSURE

A bone graft that is made at least partially of synthetic material or demineralized bone matrix and is manufactured in suitable shape and/or dimensions to augment an alveolar ridge. The bone graft may be such as to augment both a portion of the crest of the alveolar ridge and a portion of at least one side of the alveolar ridge. The graft may include at least one hole for the intended position of an implant base, and/or at least one hole for attachment hardware. The graft may be manufactured to standard dimensions or it may be manufactured to patient-unique dimensions which may be determined radiographically prior to surgery and prior to manufacturing of the bone graft. The bone graft may be able to be carved for dimensional adjustment during surgery. The bone graft may have composition and/or local geometry which varies from one place to another, and may have a particular composition and/or local geometry at places intended to adjoin natural bone.